PRO POWER SOLUTIONS
THE POWER OF EXPERTISE

1785 Corporate Drive, Suite 650
Norcross, GA 30093
Phone: 770-381-2424

Typical Generator Installation Checklist - Diesel

Concrete Foundation

- ❑ Generator set is securely mounted and anchored onto a concrete pad. For unit dimensions, weight, conduit stub up locations and fuel connection locations, please refer to the detailed installation drawing for the specific unit being installed. The concrete pad should be a minimum of 12" longer and wider than the generator mounting skid or sub-base fuel tank to provide at least a 6" apron around the unit.

Electrical Requirements

- ❑ AC and DC (Control) wiring are in separate conduits
- ❑ AC conductors between automatic transfer switch and main line circuit breaker and neutral connection on generator set are properly sized, installed and terminated.
- ❑ DC remote start leads - Qty 2, 14 AWG between automatic transfer switch and generator for remote auto start. These leads are to be terminated prior to start up.
- ❑ Engine Block Heater AC Circuit – An AC (typically 120VAC) circuit is run to the generator set to power engine block heater, sized appropriately for amperage and voltage as required for the input of the block heater. Please confirm the input voltage and the out put wattage of the block heater. This circuit does not have to be on the emergency distribution panel. ***Note: Do not energize this circuit until the start up technician has completed the start up procedures.***
- ❑ Battery Charger AC Circuit - A 120VAC circuit is run to the generator set to power the battery charger. This circuit does have to be on the emergency distribution panel. This circuit is terminated at the generator set inside the battery charger. Note: For many of the Generac units, the AC input for the engine block heater is pre-wired from the factory to the AC input terminals inside of the battery charger. ***Note: Do not energize this circuit until the start up technician has completed the connection of the battery system and completed the start up procedures.***

Remote Annunciator Panel (If Applicable)

- ❑ Switch Position Indication Leads – Run Qty 3, 14 AWG leads from the automatic transfer switch to the generator control con sole. These leads are to be run in the same conduit as the remote start (DC) leads. ***Note: The start up technician will terminate these leads at the automatic transfer switch and at the generator.***
- ❑ Between generator control console and remote annunciator, run a 2 conductor ***shielded pair*** (+RS485 & -RS485) and run Qty 2, 16 AWG conductors for DC voltage (#15 & #0). This can be run in a 1/2" conduit. ***Note: The start up technician will terminate these leads at the generator control console and the remote annunciator panel.***

Additional Electrical Accessories

- ❑ For additional accessories such as battery heaters, remote emergency stop stations, condensation heaters, etc, contact Pro Power Solutions for installation details.

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Fuel Systems

- ❑ Diesel – The initial fill of the fuel tank is the responsibility of the installing contractor or owner, unless otherwise specified by Pro Power Solutions. The diesel engine runs on #2 diesel fuel. The tank should only be filled approximately 90-95% full to allow for fuel expansion in warmer weather. Note: Fuel must be delivered prior to the start up service.

A smooth and problem free start up is our collective goal. In an attempt to streamline the commissioning and start up process, Pro Power Solutions requests that the installing contractor to please read thoroughly, sign and return by fax this installation check list. Pro Power Solutions requires that the installation be ***complete*** before factory authorized start up can be scheduled or performed. Additional trips to the jobsite due to incomplete installations may result in additional charges. Should you have any questions about the installation, please do not hesitate to call us.

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Pre-Startup Checklist

THE FOLLOWING ITEMS MUST BE COMPLETED PRIOR TO SCHEDULING THE STARTUP SERVICE.

For information regarding wiring and fuel consumption / line size, please refer to the manual(s) that are provided with your unit(s).

- ❑ Generator is securely mounted with proper anchoring devices.
- ❑ Verified maximum gaseous fuel flow (CFH) required by generator to properly sized fuel lines.
- ❑ Verified 11”-14” (inches) of water column gas pressure to the generator, as required by natural gas and LP vapor generators for maximum consumption.
- ❑ Fuel tank filled (if applicable). Fuel lines connected, purged and checked for leaks on gaseous units.
- ❑ 120 VAC circuit wired to the battery charger terminal strip (this is also the coolant heater circuit).
- ❑ 120 VAC circuit wired to auxiliary heaters (if any).
- ❑ Larger block heaters wired to separate circuit (typically 240 volt, if applicable).
- ❑ Battery installed. Water level checked, terminals connected and battery properly charged. Unit charger terminals coated with anticorrosion compound. Note: Use only deionized or distilled water for battery top-off. Caution: Remove fuses from battery charger AC side and control panel before connecting battery terminals. Replace charger AC fuse, then control panel fuse after battery terminal connection.
- ❑ AC conductors properly connected to the main line circuit breaker.
- ❑ Remote start wires (GTS) or commuication wires (HTS) connected from ATS to the generator connection box (run start and control wires in a separate conduit).
- ❑ ATS properly connected to the utility, load and emergency conductors per state, federal and local code. 7.30.03
- ❑ Remote annunciator panel wiring terminated (if applicable). Annunciator wire to be run in a conduit with no AC voltage (run in start wire conduit or in separate conduit).
- ❑ All ductwork and dampers properly installed and wired for use (if applicable). Genset has adequate spacing around it to allow for proper airflow into and out of the unit. Spacing around buildings and walls of structures must comply with local fire code.
- ❑ Exhaust system installed completely and insulated (if applicable).

Unless arranged with the Generac dealer prior to the startup visit, additional charges may apply if a Generac dealer technician must perform work on any of the above items. Charges may also apply if the technician must wait for work to be completed or to gain access to the site.

EC signature:_____ Date:_____

Once complete, fax this form to the Generac dealer performing the startup service. Upon receipt, the startup will be scheduled as soon as practical.